SOW-03-834-1-8A259B-1/1 16 August 2001

# **STATEMENT**

**OF** 

WORK

(SOW)

# FOR THE REBUILD

OF THE

**CUMMINS VT-400 ENGINE** 

TURBOCHARGER ASSEMBLY

NSN 2815-01-135-7475

SOW-03-834-1-8A259B-1/1

DATED 16 August 2001

# STATEMENT OF WORK FOR THE REBUILD OF THE CUMMINS VT-400 ENGINE TURBOCHARGER ASSEMBLY NSN 2815-01-135-7475

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## STATEMENT OF WORK FOR THE REBUILD OF THE CUMMINS VT-400 ENGINE TURBOCHARGER ASSEMBLY NSN 2815-01-135-7475

- 1.0 <u>SCOPE</u>. This Statement of Work (SOW), along with TM 8F152B-25&P/A establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the rebuild of the Turbocharger Assembly on the Assault Amphibious Vehicle (AAV). These documents contain minimum requirements to restore the Turbocharger Assembly to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned material which is serviceable and issuable to all customers without limitations or restrictions". The Turbocharger Assembly is identified by National Stock Number 2815-01-135-7475.
- 1.1 <u>BACKGROUND</u>. Rebuild is defined as that maintenance technique to restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through disassembly of the item; inspection of all parts or components, repair or replacement of worn or unserviceable parts using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.
- 2.0 <u>APPLICABLE DOCUMENTS</u>. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

#### 2.1 Military Standards

MIL-STD-2073-1D DoD Standard Practice for Military Packaging

MIL-STD-129 DoD Standard Practice for Military Marking

2.2 Other Government Documents and Publications

DoD 4160.21-M Defense Utilization and Disposal Manual

TM 2350-45 DMA Standard Procedures

TM 8F152B-25&P/A Power Plant Assembly Assault Amphibious Vehicle

(AAV7A1-MODELS AAVP7A1, AAVC7A1,

AAVR7A1)

**Engineering Drawing** 

AR12637 Turbocharger Assembly

Cage 15434

DoD 4000.25-1-M MILSTRIP Manual

NAVICPINST 4491.2A Requisitioning of Contractor Furnished Material

From The Federal Supply System

Military Handbooks (For Guidance)

MIL-HDBK-61 Configuration Management Guidance

2.3 <u>Industry Standards</u>

ANSI/ISO/ASQC Q9003-1994 Quality Systems-Model for Quality Assurance in

Final Inspection and Test

<u>Industry Standards (For Guidance)</u>

ANSI/EIA-649 National Consensus Standards for Configuration

Management

Copies of Military Standards and Specifications are available from the DoD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Commercial (215) 697-2179 or DSN 442-2179 or <a href="http://www.dodssp.daps.mil">http://www.dodssp.daps.mil</a>. Copies of handbooks, publications and other Government documents required by the contractor in connection with specific SOW requirements shall be obtained, in writing, from: Commander, Marine Corps Logistics Bases, Attn: (Code 876), Albany, Georgia 31704-5000, Commercial (229) 639-5818/19, or DSN 567-5818/19. Copies of Drawings and Engineering Change Proposals required by the contractor shall be obtained in writing from Supply Chain Management Center, Attn: (Code 583-1), Marine Corps Logistics Bases, 814 Radford Blvd, STE 20302 Albany Georgia 31704-3020, Commercial (229) 639-6410 or DSN 567-6410. To obtain a copy of the Engineering Drawing AR12637, Cage 15434 the contractor shall request a copy in writing from Cummins Engine Company, Inc., 500 Jackson Street, P.O. Box 3005, Columbus, IN 47207-3005, Commercial Telephone (812) 377-3196.

#### 3.0 REQUIREMENTS

- 3.1 General Tasks. In fulfilling the specified requirements, the contractor shall:
- a. Provide materials, labor, facilities, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, repair, rebuild, and calibrate as required to make the Turbocharger Assembly fully operational. Upon completion of the rebuild, the Turbocharger Assembly shall be Condition Code "A".
- b. Conduct final-on-site testing which shall be witnessed by Marine Corps Systems Command (MCSC), (CBG) Albany, Georgia representative at his/her discretion

- c. The contractor shall be responsible for all structural, electrical and mechanical requirements associated with the rebuild of the Turbocharger Assembly as specified in TM 8F152B-25&P/A, MIL-STD 2073-1D, MIL-STD-129 and this statement of work.
- d. Provide a Turbocharger Assembly meets the configuration of Cummings Drawing AR12637.
- e. All mandatory replacement parts identified in TM 8F152B-25&P/A shall be replaced 100%. Economically replacement parts may be reused if they meet the applicable inspection requirements in TM 2350-45. All parts shall be disposed of in accordance with DoD 4160.21-M
- 3.2 <u>Detailed Tasks</u>. The following tasks describe the different phases for the rebuild of the Turbocharger Assembly.
- 3.2.1 Phase I Rebuild. The contractor shall receive Turbocharger Assembly for rebuild. The contractor shall then disassemble the Turbocharger Assembly into components and conduct the rebuild process. The contractor shall rebuild components in accordance with the requirements in TM 8F152B-25&P/A and this SOW. The contractor shall be responsible for supplying all equipment, tools, test equipment, and materials for the conduct of this effort. The contractor shall be responsible for the integration and assembly of all components. The configuration identification for the Turbocharger Assembly is defined by the specifications annotated on current revision level of Cummings Engine Company Incorporated Drawing AR12637. A Rebuild Data Plate shall be installed centered in the rear below the item identification plate. The rebuild data plate shall contain the following (REBUILT BY:) (INSPECTED BY:) and (DATE REBUILT:) The Plate shall be no more than .008 in thickness, "2 3/4"in length and 3/4"in height.
- 3.2.2 <u>Phase II Inspection, Testing, Acceptance</u>. Inspection, testing, and acceptance of the Turbocharger Assembly shall be conducted in accordance with TM 8F152B-25&P/A and ANSI/ISO/ASQC Q9003-1994. Any deficiencies found shall be corrected by the contractor.
- 3.2.3 Phase III Packaging, Handling Storage and Transportation (PHS&T).
- a. The contractor shall be responsible for the preservation and packaging of the items being rebuilt under the terms of this SOW. Items being prepared for long-term storage or overseas shipment shall be in accordance with level "A" requirements of MIL-STD-2073-1D, Method 30. Items being prepared for domestic shipment for immediate use or short-term storage shall be to level "B" requirements.
  - b. Marking for shipment and storage shall be in accordance with MIL-STD-129.
- c. The Marine Corps shall provide the contractors with the shipping address(es) for delivery of the repaired equipment, and the contractor shall be responsible for arranging for shipment to the predesignated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the Turbocharger Assembly to and from the contractor.

#### 3.3 Configuration Management

- a. The Contractor shall apply configuration control procedures to established configuration items. The Contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. The procedures or materials contained in manuals, standards and instructions or engineering drawings/documents define the item's characteristics. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.
- b. The creation and submission of RFDs shall be accomplished using MEARS CREATE software, application, which resides at a secure web site, <a href="https://mearsweb2.redstone.army.mil">https://mearsweb2.redstone.army.mil</a>. For the purpose of gaining access to the web site, the contractor shall request User-ID and password privileges from the Requiring Office identified in Block 6 of the applicable Contract Data Requirements List. The contractor shall direct any technical of functional questions concerning usage of MEARS CREATE software to the Requiring Office for guidance. The contractor shall notify the Requiring Office by electronic mail when completed RFDs are ready for formal submission.

#### 3.4 Government Furnished Equipment (GFE) and Government Furnished Materiel (GFM)

GFE is government owned equipment authorized by contract for use by a commercial/Government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into a product being manufactured/remanufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements the Management Control Activity (MCA) at MARCORLOGBASEALB (MCA/Code 573-2), will coordinate required GFE and will maintain a central control on Marine assets in the Contractors possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibility for Marine Corps assets.

#### 3.5 Contractor Furnished Material (CFM)

The Marine Corps has adopted the Navy procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Material is required for repair parts, the DOD 4000.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DoD Supply System.

#### 3.6 Quality Assurance Provisions

3.6.1 The performance of the contractor's quality of work performed, material provided and documents written shall be subject to in-process review and inspection by the MCSC (CBG), Albany, GA, representative during contract performance. Inspection may be accomplished at any work location. The MCSC (CBG), Albany, GA, representative shall be permitted to observe the work/task accomplish and/or conduct inspections at any reasonable hour. Acceptance Test shall be held in-plant. The Marine Corps System Command (CBG), Albany, GA, representative requires, at a minimum, two weeks notification of acceptance test to allow for sufficient time for witnessing these test. Inspection by the MCSC (CBG), Albany, GA, representative of all acceptance tests,

materials and associated lists furnished here under does not relieve the contractor from responsibility regarding defects or failures to meet the SOW requirements which may be disclosed prior to final acceptance. The contractor shall provide and maintain a Quality System that at a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9003-1994.

3.6.2 The contractors work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by MCSC (CBG), Albany, GA, representative. Noncompliance with these quality assurance procedures resulting in degraded quality of work may result in a stopwork order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such inspection, it shall be the contractor's responsibility to ensure that the entire system meets the performance requirements of this SOW.

### 4.0 Report/Documentation

- 4.1 Report/Documentation that is required:
- a. The contractor shall provide a monthly Production Status Report summarizing the progress and status of the Turbocharger.

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

G. PREPARED BY:

DD FORM 1423-1, AVG 96 (EG)

Form Approved OMB No. 1704-0188

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

The Public reporting burden for this collection of information is authorized to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204. Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E. A. CONTRACT LINE ITEM NO. B EXHIBIT C. CATEGORY: Other XXX TM E. CONTRACT/PR No. D. SYSTEM/ITEM F. CONTRACTOR AAV Turbocharger Assembly 1. DATA ITEM No. 2. TITLE OF DATA ITEM 3. SUBTITLE **Production Status Report** Monthly Production Status Report A001 4 AUTHORITY (Data Acquisition Document No.) S. CONTRACT REFERENCE 6 REQUIRING OFFICE **DI-MGMT-81255** Paragraph 4.1 b. MCSC (CBG) DIST STATEMENT DISTRIBUTION REQUIRED b. COPIES LT MTHLY See Blk 16 8. APP CODE 11. AS OF DATE 13. DATE OF SUBSEQUENT a ADDRESSEE A SUBMISSION Draft Repro See Blk 16 16. REMARKS MCSC (CBG) n 0 Blk 4: Contractor format is authorized. Delete the following paragraphs. These paragraphs do not apply to this deliverable: 10.1, 10.2.3, 10.2.5, 10.2.6 and 10.2.9. In paragraphs 10.2.4 and 10.2.7, replace "CLIN" with "MWSLIN" (Master Work Schedule Line Item) Number. Blocks 10, 12 and 13 – The report shall be submitted on the tenth of each month. The first submission shall be 30 days after the contract award The Production Status Report shall be transmitted via E-Mail to the following address: HoffmanRE@matcom.usmc.mil. Distribution Statement A: Approved for public release, distribution is unlimited.

I. APPROVEDBY

PREVIOUS EDITION MAY BE USED

H. DATE

J. DATE

15, TOTAL

Page 1 of 1 Pages
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# **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

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